



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

Address: COMMISSIONER FOR PATENTS

P.O. Box 1450

Alexandria, Virginia 22313-1450

www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/666,172	09/19/2003	Akio Matsubara	6453P009	7107
8791 7590 08/06/2008 BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP 1279 OAKMEAD PARKWAY SUNNYVALE, CA 94085-4040				
EXAMINER				
MOTSINGER, SEAN T				
ART UNIT		PAPER NUMBER		
2624				
MAIL DATE		DELIVERY MODE		
08/06/2008		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/666,172

Applicant(s)

MATSUBARA, AKIO

Examiner

SEAN MOTSINGER

Art Unit

2624

Period for Reply -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 4/2/2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 and 16-42 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6, 16-42 is/are rejected.
- 7) ☒ Claim(s) 7 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-8506)
- Paper No(s)/Mail Date 4/17/2006, 2/6/2004, 9/19/2003.
- 4) ☐ Interview Summary (PTO-413)
- Paper No(s)/Mail Date _____.
- 5) ☐ Notice of Informal Patent Application.
- 6) ☐ Other: _____.

Rejections Under 35 U.S.C. 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

1. Claims 1,23-25, 28,29, 31,34,35 and 42 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
2. Re claim 1, 34, 35 "The display unit" lacks antecedent basis and is therefore unclear.
3. Re claims 23-25, 28,29, 31, 42 these claims refers to "a display unit" twice it is unclear if these are the same display unit or different display units.

Rejections Under 35 U.S.C. 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Art Unit: 2624

4. Claims 1-4, 22-32, 34-36, 38-39, and 41-42 rejected under 35 U.S.C. 102(a/e) as being anticipated by Dekel US 2002-0159653.
5. Re claim 1 Dekel discloses An image processing apparatus, comprising: a block decompression unit to decompress (decoding paragraph 291), block by block, a compressed code having a plurality of blocks into which image data is divided (Data block paragraph 291), the compressed code being encoded block by block ; and a rendering control unit (Imaging client 110 paragraph 249) to cause a code to be decompressed (decoded paragraph 291) and rendered on a display unit (rendered paragraph 294), the code corresponding to at least one of the blocks that is renderable in a rendering region of the display unit (paragraph 295 note the ROI is rendered).
6. Re claim 2 Dekel discloses an image processing apparatus, comprising: a block decompression unit to decompress (decoding paragraph 291), block by block, a compressed code having a plurality of blocks into which image data is divided, the compressed code being encoded block by block(Data block paragraph 291); and a rendering control unit (Imaging client 110 paragraph 249), to cause a first code to be decompressed (decoded paragraph 291) and rendered on a display unit (rendered paragraph 294) the first code corresponding to at least one of the blocks that is renderable in a rendering region of the display unit(paragraph 295 note the ROI is rendered),, and thereafter, causes a second code to be decompressed (new

Art Unit: 2624

ROI paragraph 249), the second code corresponding to at least one of the blocks that is outside the rendering (new ROI paragraph 249).

7. Re claim 3 Dekel discloses an image processing apparatus, comprising: a block decompression unit to decompress (decoding paragraph 291), block by block, a compressed code having a plurality of blocks into which image data is divided (Data block paragraph 291), the compressed code being encoded block by block (jpeg 2000); and a rendering control unit (GUI interface modular paragraph 249) to specify an area to be rendered of the image and cause the specified area to be rendered on a display unit a block extraction (client 110 paragraph 268 creates request lits) unit to receive a rendering area signal indicating the area to be rendered on the display unit from the rendering control unit, and extract a block corresponding to the area to be rendered from the blocks of the compressed code (note client 110 receives the compressed blocks paragraph 291). a rendering area block decompression (decoding paragraph 291) unit to cause the block decompression unit to decompress part of the compressed code that corresponds to the extracted block; a decompressed image storage unit to store part of the image that corresponds to the decompressed part of the compressed code (onscreen buffer paragraph 316); a rendering enabling signal output unit (paragraph 296 and 302 note the data available for rendering is monitored) to output to the rendering control unit a rendering enabling signal indicating completion of decompression of the area to be rendered after the decompression of the part of the compressed code is completed; and a

specified area rendering unit(paragraph 296 rendering is applied to newly arrived data) to receive the rendering enabling signal from the rendering enabling signal output unit and cause the part of the image stored in the decompressed image storage unit to be rendered on the display unit(paragraph 296 rendering is applied to newly arrived data).

8. Re claim 4 Dekel discloses An image processing apparatus that, in decompressing a compressed code, decompresses part of the compressed code that corresponds to a block of data of an image that corresponds to an area of the image that is to be rendered in a rendering region of a display unit (paragraph 291 decode data block), and renders the decompressed part of the compressed code before decompressing the remaining part of the compressed code (paragraph 294 progressive rendering), the image processing apparatus comprising: a rendered image change instruction unit to give an instruction to change the area to be rendered from a first area to a second area of the image (GUI interface paragraph 249); and a changed image rendering unit (client 110 paragraph 249) to, when the instruction is given by the rendered image change instruction unit, decompress part of the compressed code that corresponds to a block of the data of the image that corresponds to the second area of the image (decode data block paragraph 291), and render the second area of the image in the rendering region (paragraph 294).

9. Re claim 22 Dekel discloses An image display apparatus, comprising: a display unit to display information (paragraph 316 displayed on screen); a receiver unit to receive via a network a compressed code formed of a plurality of blocks into which data of an image is divided, the compressed code being encoded block by block (see paragraph 290 receiving the blocks); and An image processing apparatus, comprising: a block decompression unit to decompress (decoding paragraph 291), block by block, a compressed code having a plurality of blocks into which image data is divided (Data block paragraph 291), the compressed code being encoded block by block; and a rendering control unit (Imaging client 110 paragraph 249) to cause a code to be decompressed (decoded paragraph 291) and rendered on a display unit (rendered paragraph 294), the code corresponding to at least one of the blocks that is renderable in a rendering region of the display unit (paragraph 295 note the ROI is rendered), the image processing apparatus decompressing (decoded paragraph 291) the received compressed code and causing the received compressed code to be rendered on the display unit (paragraph 295 note the ROI is rendered).
10. Re claim 23 Dekel discloses discloses An image display apparatus, comprising: a display unit to display information (paragraph 316 displayed on screen); a receiver unit to receive via a network a compressed code formed of a plurality of blocks into which data of an image is divided, the compressed code being encoded block by block (see paragraph 290 receiving the blocks); an image processing apparatus,

comprising: a block decompression unit to decompress (decoding paragraph 291), block by block, a compressed code having a plurality of blocks into which image data is divided, the compressed code being encoded block by block (Data block paragraph 291); and a rendering control unit (Imaging client 110 paragraph 249), to cause a first code to be decompressed (decoded paragraph 291) and rendered on a display unit (rendered paragraph 294) the first code corresponding to at least one of the blocks that is renderable in a rendering region of the display unit (paragraph 295 note the ROI is rendered)., and thereafter, causes a second code to be decompressed (new ROI paragraph 249), the second code corresponding to at least one of the blocks that is outside the rendering (new ROI paragraph 249); the image processing apparatus decompressing (decoded paragraph 291) the received compressed code and causing the received compressed code to be rendered on the display unit (paragraph 295 note the ROI is rendered).

11. Re claim 24 Dekel discloses discloses An image display apparatus, comprising: a display unit to display information (paragraph 316 displayed on screen); a receiver unit to receive via a network a compressed code formed of a plurality of blocks into which data of an image is divided, the compressed code being encoded block by block (see paragraph 290 receiving the blocks); a block decompression unit to decompress (decoding paragraph 291), block by block, a compressed code having a plurality of blocks into which image data is divided (Data block paragraph 291), the compressed code being encoded block by block (jpeg 2000); and a rendering control

unit (GUI interface modular paragraph 249) to specify an area to be rendered of the image and cause the specified area to be rendered on a display unit a block extraction (client 110 paragraph 268 creates request lits) unit to receive a rendering area signal indicating the area to be rendered on the display unit from the rendering control unit, and extract a block corresponding to the area to be rendered from the blocks of the compressed code (note client 110 receives the compressed blocks paragraph 291). a rendering area block decompression (decoding paragraph 291) unit to cause the block decompression unit to decompress part of the compressed code that corresponds to the extracted block; a decompressed image storage unit to store part of the image that corresponds to the decompressed part of the compressed code (onscreen buffer paragraph 316); a rendering enabling signal output unit (paragraph 296 and 302 note the data available for rendering is monitored) to output to the rendering control unit a rendering enabling signal indicating completion of decompression of the area to be rendered after the decompression of the part of the compressed code is completed; and a specified area rendering unit(paragraph 296 rendering is applied to newly arrived data) to receive the rendering enabling signal from the rendering enabling signal output unit and cause the part of the image stored in the decompressed image storage unit to be rendered on the display unit(paragraph 296 rendering is applied to newly arrived data). the image processing apparatus decompressing (decoded paragraph 291) the received compressed code and causing the received compressed code to be rendered on the display unit (paragraph 295 note the ROI is rendered).

12. Re claim 25 Dekel discloses Dekel discloses discloses An image display apparatus, comprising: a display unit to display information (paragraph 316 displayed on screen); a receiver unit to receive via a network a compressed code formed of a plurality of blocks into which data of an image is divided, the compressed code being encoded block by block (see paragraph 290 receiving the blocks); An image processing apparatus that, in decompressing a compressed code, decompresses part of the compressed code that corresponds to a block of data of an image that corresponds to an area of the image that is to be rendered in a rendering region of a display unit (paragraph 291 decode data block), and renders the decompressed part of the compressed code before decompressing the remaining part of the compressed code (paragraph 294 progressive rendering), the image processing apparatus comprising: a rendered image change instruction unit to give an instruction to change the area to be rendered from a first area to a second area of the image (GUI interface paragraph 249); and a changed image rendering unit (client 110 paragraph 249) to, when the instruction is given by the rendered image change instruction unit, decompress part of the compressed code that corresponds to a block of the data of the image that corresponds to the second area of the image (decode data block paragraph 291), and render the second area of the image in the rendering region (paragraph 294); the image processing apparatus decompressing (decoded paragraph 291) the received compressed code and causing the received

Art Unit: 2624

compressed code to be rendered on the display unit (paragraph 295 note the ROI is rendered).

13. Re claim 26 Dekel discloses An image display apparatus, comprising: a display unit to display information (paragraph 316 displayed on screen); an image compression unit to divide data for an image into a plurality of blocks and compresses and encodes each of the blocks into a compressed code (encoding algorithm preformed at sever paragraph 195) ; and An image processing apparatus, comprising: a block decompression unit to decompress (decoding paragraph 291), block by block, a compressed code having a plurality of blocks into which image data is divided (Data block paragraph 291), the compressed code being encoded block by block; and a rendering control unit (Imaging client 110 paragraph 249) to cause a code to be decompressed (decoded paragraph 291) and rendered on a display unit (rendered paragraph 294), the code corresponding to at least one of the blocks that is renderable in a rendering region of the display unit (paragraph 295 note the ROI is rendered)., the image processing apparatus decompressing (decoded paragraph 291) the received compressed code and causing the received compressed code to be rendered on the display unit (paragraph 295 note the ROI is rendered).

14. Re claim 27 Dekel discloses An image display apparatus, comprising: a display unit to display information (paragraph 316 displayed on screen); an image compression

Art Unit: 2624

unit to divide data for an image into a plurality of blocks and compresses and encodes each of the blocks into a compressed code (encoding algorithm preformed at sever paragraph 195) ; an image processing apparatus, comprising: a block decompression unit to decompress (decoding paragraph 291), block by block, a compressed code having a plurality of blocks into which image data is divided, the compressed code being encoded block by block(Data block paragraph 291); and a rendering control unit (Imaging client 110 paragraph 249), to cause a first code to be decompressed (decoded paragraph 291) and rendered on a display unit (rendered paragraph 294) the first code corresponding to at least one of the blocks that is renderable in a rendering region of the display unit(paragraph 295 note the ROI is rendered)., and thereafter, causes a second code to be decompressed (new ROI paragraph 249), the second code corresponding to at least one of the blocks that is outside the rendering (new ROI paragraph 249); the image processing apparatus decompressing (decoded paragraph 291) the received compressed code and causing the received compressed code to be rendered on the display unit (paragraph 295 note the ROI is rendered).

15. Re claim 28 Dekel discloses discloses An image display apparatus, comprising: a display unit to display information (paragraph 316 displayed on screen); an image compression unit to divide data for an image into a plurality of blocks and compresses and encodes each of the blocks into a compressed code (encoding algorithm preformed at sever paragraph 195); a block decompression unit to

decompress (decoding paragraph 291), block by block, a compressed code having a plurality of blocks into which image data is divided (Data block paragraph 291), the compressed code being encoded block by block (jpeg 2000); and a rendering control unit (GUI interface modular paragraph 249) to specify an area to be rendered of the image and cause the specified area to be rendered on a display unit a block extraction (client 110 paragraph 268 creates request lits) unit to receive a rendering area signal indicating the area to be rendered on the display unit from the rendering control unit, and extract a block corresponding to the area to be rendered from the blocks of the compressed code (note client 110 receives the compressed blocks paragraph 291). a rendering area block decompression (decoding paragraph 291) unit to cause the block decompression unit to decompress part of the compressed code that corresponds to the extracted block; a decompressed image storage unit to store part of the image that corresponds to the decompressed part of the compressed code (onscreen buffer paragraph 316); a rendering enabling signal output unit (paragraph 296 and 302 note the data available for rendering is monitored) to output to the rendering control unit a rendering enabling signal indicating completion of decompression of the area to be rendered after the decompression of the part of the compressed code is completed; and a specified area rendering unit(paragraph 296 rendering is applied to newly arrived data) to receive the rendering enabling signal from the rendering enabling signal output unit and cause the part of the image stored in the decompressed image storage unit to be rendered on the display unit(paragraph 296 rendering is applied to newly arrived

data). the image processing apparatus decompressing (decoded paragraph 291) the received compressed code and causing the received compressed code to be rendered on the display unit (paragraph 295 note the ROI is rendered).

16. Re claim 29 Dekel discloses An image display apparatus, comprising: a display unit to display information (paragraph 316 displayed on screen); an image compression unit to divide data for an image into a plurality of blocks and compresses and encodes each of the blocks into a compressed code (encoding algorithm preformed at sever paragraph 195); An image processing apparatus that, in decompressing a compressed code, decompresses part of the compressed code that corresponds to a block of data of an image that corresponds to an area of the image that is to be rendered in a rendering region of a display unit (paragraph 291 decode data block), and renders the decompressed part of the compressed code before decompressing the remaining part of the compressed code (paragraph 294 progressive rendering), the image processing apparatus comprising: a rendered image change instruction unit to give an instruction to change the area to be rendered from a first area to a second area of the image (GUI interface paragraph 249); and a changed image rendering unit (client 110 paragraph 249) to, when the instruction is given by the rendered image change instruction unit, decompress part of the compressed code that corresponds to a block of the data of the image that corresponds to the second area of the image (decode data block paragraph 291), and render the second area

of the image in the rendering region (paragraph 294); the image processing apparatus decompressing (decoded paragraph 291) the received compressed code and causing the received compressed code to be rendered on the display unit (paragraph 295 note the ROI is rendered).

17. Re claims 30-32, Claims 30-32 are the method performed by the devices of claim 1, 2, and 4 are likewise rejected.

18. Re claim 34-36 These claims are a computer readable medium storing computer code to cause a computer perform the methods of claims 30-32. Since Decal also uses computers see figure 1 these claims are likewise rejected.

19. Re claim 38 Dekel discloses An image display system including a sever computer and a client computer connected to the zerver computer via a network (see figure 1) the image processing apparatus, comprising: a block decompression unit to decompress (decoding paragraph 291), block by block, a compressed code having a plurality of blocks into which image data is divided (Data block paragraph 291), the compressed code being encoded block by block (jpeg 2000); and a rendering control unit (GUI interface module paragraph 249) to specify an area to be rendered of the image and cause the specified area to be rendered on a display unit a block extraction (client 110 paragraph 268 creates request list) unit to receive a rendering area signal indicating the area to be rendered on the display unit from the rendering

Art Unit: 2624

control unit, and extract a block corresponding to the area to be rendered from the blocks of the compressed code (note client 110 receives the compressed blocks paragraph 291). a rendering area block decompression (decoding paragraph 291) unit to cause the block decompression unit to decompress part of the compressed code that corresponds to the extracted block; a decompressed image storage unit to store part of the image that corresponds to the decompressed part of the compressed code (onscreen buffer paragraph 316); a rendering enabling signal output unit (paragraph 296 and 302 note the data available for rendering is monitored) to output to the rendering control unit a rendering enabling signal indicating completion of decompression of the area to be rendered after the decompression of the part of the compressed code is completed; and a specified area rendering unit(paragraph 296 rendering is applied to newly arrived data) to receive the rendering enabling signal from the rendering enabling signal output unit and cause the part of the image stored in the decompressed image storage unit to be rendered on the display unit(paragraph 296 rendering is applied to newly arrived data).

20. Re claim 39 Dekel discloses An image display system including a sever computer and a client computer (see figure 1) that, in decompressing a compressed code, decompresses part of the compressed code that corresponds to a block of data of an image that corresponds to an area of the image that is to be rendered in a rendering region of a display unit (paragraph 291 decode data block), and renders

the decompressed part of the compressed code before decompressing the remaining part of the compressed code (paragraph 294 progressive rendering), the image processing apparatus comprising: a rendered image change instruction unit to give an instruction to change the area to be rendered from a first area to a second area of the image (GUI interface paragraph 249); and a changed image rendering unit (client 110 paragraph 249) to, when the instruction is given by the rendered image change instruction unit, decompress part of the compressed code that corresponds to a block of the data of the image that corresponds to the second area of the image (decode data block paragraph 291), and render the second area of the image in the rendering region (paragraph 294).

21. Re claim 41 Dekel discloses An image display apparatus, comprising: a display unit to display information (paragraph 316 displayed on screen); and An image processing apparatus, comprising: a block decompression unit to decompress (decoding paragraph 291), block by block, a compressed code having a plurality of blocks into which image data is divided (Data block paragraph 291), the compressed code being encoded block by block; and a rendering control unit (Imaging client 110 paragraph 249) to cause a code to be decompressed (decoded paragraph 291) and rendered on a display unit (rendered paragraph 294), the code corresponding to at least one of the blocks that is renderable in a rendering region of the display unit (paragraph 295 note the ROI is rendered).,

22. Re claim 42 Dekel discloses An image display apparatus, comprising: a display unit to display information (paragraph 316 displayed on screen); an image processing apparatus, comprising: a block decompression unit to decompress (decoding paragraph 291), block by block, a compressed code having a plurality of blocks into which image data is divided, the compressed code being encoded block by block (Data block paragraph 291); and a rendering control unit (Imaging client 110 paragraph 249), to cause a first code to be decompressed (decoded paragraph 291) and rendered on a display unit (rendered paragraph 294) the first code corresponding to at least one of the blocks that is renderable in a rendering region of the display unit (paragraph 295 note the ROI is rendered), and thereafter, causes a second code to be decompressed (new ROI paragraph 249), the second code corresponding to at least one of the blocks that is outside the rendering (new ROI paragraph 249)

Rejections Under 35 U.S.C. 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

23. Claims 5-6, 33, 37 and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dekel in view of Cohen et al US 6,873,329.

24. Re claim 5 Dekel discloses all of the elements of claim 4 and a unit decompressing received blocks (paragraph 291). Dekel does not disclose a predicted block unit to predict an area of the image to which the area to be rendered is changed from the first area based on the instruction given by the rendered image change instruction unit, and request, in advance, part of the code that corresponds to a block of the data of the image that corresponds to the predicted area, wherein the changed image rendering unit renders the predicted area of the image in the rendering region when the block corresponding to the predicted area is identical to the block corresponding to the second area. Cohen et al discloses a predicted block unit (prediction algorithm) to predict an area of the image to which the area to be rendered is changed (column 5 lines 5-15) from the first area based on the instruction given by the rendered image change instruction unit, and request, in advance, part of the compressed code that corresponds to a block of the data of the image that corresponds to the predicted area (column 5 lines 5-15 loads predicted tiles into cache), wherein the changed image rendering unit renders the predicted area of the image in the rendering region (cached tiles quickly loaded and displayed column 6 lines 45-55) when the block corresponding to the predicted area (stored in cache column 6 lines 45-55) is identical to the block corresponding to the second area (all the tiles of the present view stored in cache stored in cache column 6 lines

45-55). The motivation to combine is for very fast display (see column 5 lines 5-15). Therefore it would have been obvious to combine Cohen and Dekel to reach the aforementioned advantage.

25. Re claim 6 Cohen and Dekel further discloses wherein the predicted block unit predicts the area of the image (Cohen columns 5 lines 5-15) the to which the area to be rendered is changed from the first area based on a characteristic of the rendering position change unit (Panning column 6 lines 10-16) when the rendered image change instruction unit (Dekel Gui interface) is based on the rendering position change unit (Dekel GUI interface).
26. Re claim 33 Claim 33 is the method performed by the devices of claim 5 and is likewise rejected.
27. Re claim 37 This claim is a computer readable medium storing computer code to cause a computer perform the methods of claim 33. Since Dekel also uses computers see figure 1 these claims are likewise rejected.
28. Re claim 40 Dekel discloses all of the elements of claim 39 and a unit decompressing received blocks (paragraph 291). Dekel does not disclose a predicted block unit to predict an area of the image to which the area to be rendered is changed from the first area based on the instruction given by the rendered image

change instruction unit, and request , in advance, part of the code that corresponds to a block of the data of the image that corresponds to the predicted area, wherein the changed image rendering unit renders the predicted area of the image in the rendering region when the block corresponding to the predicted area is identical to the block corresponding to the second area. Cohen et al discloses a predicted block unit (prediction algorithm) to predict an area of the image to which the area to be rendered is changed (columns 5 lines 5-15) from the first area based on the instruction given by the rendered image change instruction unit, and request, in advance, part of the compressed code that corresponds to a block of the data of the image that corresponds to the predicted area (column 5 lines 5-15 loads predicted tiles into cache), wherein the changed image rendering unit renders the predicted area of the image in the rendering region (cached tiles quickly loaded and displayed column 6 lines 45-55) when the block corresponding to the predicted area (stored in cache column 6 lines 45-55) is identical to the block corresponding to the second area (all the tiles of the present view stored in cache stored in cache column 6 lines 45-55). The motivation to combine is for very fast display (see column 5 lines 5-15). Therefore it would have been obvious to combine Cohen and Dekel to reach the aforementioned advantage.

29. Claims 16-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dekel in view of examiners official notice.

30. Re claim 16 Dekel discloses all of the elements of claim 4. the examiner is taking official notice that it is notoriously well known to perform such applications wherein the block employed as a unit of dividing the image is a tile. The result of such a combination would be predictable (i.e. retrieving the image tile by tile), and easily within the skill of the art. Therefore it would have been obvious to combine Dekel with examiners official notice.

31. Re claim 17 the examiner is taking further official notice that it would be well known define tiles as a dividing block via a profile. The result of such a combination would be predictable (i.e. defining the dividing block between the devices), and easily within the skill of the art. Therefore it would have been obvious to combine Dekel with examiners official notice.

32. Re claim 18 Dekel discloses all of the elements of claim 4. the examiner is taking official notice that it is notoriously well known to perform such applications wherein the block employed as a unit of dividing the image is a precinct. The result of such a combination would be predictable (i.e. retrieving the image precinct by precinct), and easily within the skill of the art. Therefore it would have been obvious to combine Dekel with examiners official notice.

33. Re claim 19 the examiner is taking further official notice that it would be well known define tiles as a dividing block via a profile. The result of such a combination would be predictable (i.e. defining the dividing block between the devices), and easily within the skill of the art. Therefore it would have been obvious to combine Dekel with examiners official notice.

34. Re claim 20 Dekel discloses all of the elements of claim 4. the examiner is taking official notice that it is notoriously well known to perform such applications wherein the block employed as a unit of dividing the image is a codeblock. The result of such a combination would be predictable (i.e. retrieving the image codeblock by codeblock), and easily within the skill of the art. Therefore it would have been obvious to combine Dekel with examiners official notice.

35. Re claim 21 the examiner is taking further official notice that it would be well known define tiles as a dividing block via a profile. The result of such a combination would be predictable (i.e. defining the dividing block between the devices), and easily within the skill of the art. Therefore it would have been obvious to combine Dekel with examiners official notice.

Allowable Subject Matter

Claim 7 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Claim 7 claims where the predicted block decomposition unit predicts that a block existing in a first direction from the first area is a next block to be rendered, the first direction being perpendicular to a second direction in which the scrolling has been performed to the first area. Cohen predicts the next block to be rendered will be in the same a direction in which scrolling has been performed previously see column 6 lines 15-125. However the prior art of record does not disclose "where the predicted block decomposition unit predicts that a block existing in a first direction from the first area is a next block to be rendered, the first direction being *perpendicular* to a second direction in which the scrolling has been performed to the first area."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SEAN MOTSINGER whose telephone number is (571)270-1237. The examiner can normally be reached on 9-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jingge Wu can be reached on (571)272-7429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2624

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Motsinger
8/1/2008

/Jingge Wu/

Supervisory Patent Examiner, Art Unit 2624